Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application.

Listing of Claims:

1-4. (Cancelled)

5. (Currently Amended) A printing device configured to print a printing

fluid onto a printing medium, the printing device comprising:

a printing fluid reservoir configured to hold a volume of the printing fluid;

a print head assembly configured to transfer the printing fluid to the printing

medium, wherein the print head assembly is fluidically connected to the printing fluid

reservoir; and

a printing fluid detector configured to detect a characteristic of the printing

fluid, wherein the printing fluid detector includes a first electrode and a second

electrode configured to be in contact with the printing fluid, wherein at least one of

the first electrode and the second electrode provides a hollow interior that the

printing fluid passes through and includes an electrically conductive coating disposed

over an electrically conductive substrate, and wherein the electrically conductive

coating is permeable to printing fluid and is configured to increase the effective

surface area of the electrode accessible to the printing fluid.

6. (Currently Amended) A printing device configured to print a printing

fluid onto a printing medium, the printing device comprising:

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a printing fluid reservoir configured to hold a volume of the printing fluid;

a print head assembly configured to transfer the printing fluid to the printing

medium, wherein the print head assembly is fluidically connected to the printing fluid

reservoir; and

a printing fluid detector configured to detect a characteristic of the printing

fluid, wherein the printing fluid detector includes a first electrode and a second

electrode configured to be in contact with the printing fluid, and wherein at least one

of the first electrode and the second electrode provides a hollow interior that the

printing fluid passes through and includes an electrically conductive coating made at

least partially from an electrically conductive polymer, and disposed over an

electrically conductive substrate.

7. (Original) The printing device of claim 6, wherein the electrically

conductive polymer is selected from the group of electrically conductive polymers

consisting of polypyrroles, polyanilines, polythiophenes, conjugated bithiazoles and

bis-(thienyl) bithiazoles.

8. (Original) The printing device of claim 6, wherein the electrically

conductive polymer is cross-linked.

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fluid onto a printing medium, the printing device comprising:

a printing fluid reservoir configured to hold a volume of the printing fluid;

a print head assembly configured to transfer the printing fluid to the printing

medium, wherein the print head assembly is fluidically connected to the printing fluid

reservoir; and

a printing fluid detector configured to detect a characteristic of the printing

fluid, wherein the printing fluid detector includes a first electrode and a second

electrode configured to be in contact with the printing fluid, and wherein at least one

of the first electrode and the second electrode provides a hollow interior that the

printing fluid passes through and includes an electrically conductive coating resistant

to corrosion by printing fluid disposed [over] within an electrically conductive

substrate.

10-15. (Cancelled)

16. (Previously Presented) The printing device of claim 9, wherein the

electrically conductive coating is a protective polymer coating, further comprising a

printing fluid-permeable electrically conductive polymer coating disposed over the

protective polymer coating.

17. (Cancelled)

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fluid onto a printing medium, the printing device comprising:

a printing fluid reservoir configured to hold a volume of the printing fluid;

a print head assembly configured to transfer the printing fluid to the printing

medium, wherein the print head assembly is in fluid communication with the printing

fluid reservoir; and

a printing fluid detector configured to detect a characteristic of the printing

fluid, wherein the printing fluid detector includes a first electrode and a second

electrode configured to be in contact with the printing fluid, wherein at least one of

the first electrode and the second electrode provides a hollow interior that the

printing fluid passes through and includes an electrically conductive coating

permeable to printing fluid disposed over an electrically conductive substrate, and

wherein the electrically conductive coating includes a plurality of interior surfaces

contactable by the printing fluid.

19. (Original) The printing device of claim 18, wherein the electrically

conductive coating is porous.

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fluid onto a printing medium, the printing device comprising:

a printing fluid reservoir configured to hold a volume of the printing fluid;

a print head assembly configured to transfer the printing fluid to the printing

medium, wherein the print head assembly is in fluid communication with the printing

fluid reservoir; and

a printing fluid detector configured to detect a characteristic of the printing

fluid, wherein the printing fluid detector includes a first electrode and a second

electrode configured to be in contact with the printing fluid, and wherein at least one

of the first electrode and the second electrode provides a hollow interior that the

printing fluid passes through and includes an electrically conductive coating at least

partially made of a polymer[,] that is permeable to the printing fluid, the electrically

conductive coating being disposed [over] within an electrically conductive substrate.

21. (Original) The printing device of claim 20, wherein the polymer is

selected from the group consisting of polypyrroles, polyanilines, polythiophenes,

conjugated bithiazoles and bis-(thienyl) bithiazoles.

22. (Original) The printing device of claim 20, wherein the polymer is

cross-linked.

23. (Cancelled)

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fluid onto a printing medium, the printing device comprising:

a printing fluid reservoir configured to hold a volume of the printing fluid;

a print head assembly configured to transfer the printing fluid to the printing

medium, wherein the print head assembly is in fluid communication with the printing

fluid reservoir;

a printing fluid detector configured to detect a characteristic of the printing

fluid, wherein the printing fluid detector includes a first electrode and a second

electrode configured to be in contact with the printing fluid, and wherein at least one

of the first electrode and the second electrode includes provides a hollow interior that

the printing fluid passes through and an electrically conductive coating permeable to

printing fluid disposed [over] within an electrically conductive substrate; and

an electrically conductive protective coating disposed between the electrically

conductive substrate and the electrically conductive coating permeable to printing

fluid, wherein the protective coating is at least partially made of a TEFLON material.

25-28. (Cancelled)

29. (Previously Presented) The printing device of claim 16, wherein the

printing fluid-permeable electrically conductive polymer coating is made at least

partially of a material selected from the group consisting of polypyrroles, polyanilines,

polythiophenes, conjugated bithiazoles and bis-(thienyl) bithiazoles.

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